

In the Claims:

1. (currently amended) A method of sterilizing an area using ultraviolet radiation, comprising the steps of:

(a) causing ultraviolet-C radiation to be emitted from multiple positions within an enclosed area;

(b) measuring a reflection of ultraviolet-C radiation from the multiple positions within said enclosed area;

(c) calculating the a required ultraviolet-C radiation reflectance level necessary to sterilize said enclosed area and comparing it with the measured reflected ultraviolet-C radiation; and

(d) terminating the emission of ultraviolet-C radiation after determining that the required ~~minimum~~ ultraviolet-C radiation reflectance level has been reflected from the multiple positions within said enclosed area.

2. (currently amended) A method of sterilizing an area using ultraviolet radiation as described in claim 1, further comprising the step of detecting wherein motion within said enclosed area ~~room is detected~~ prior to ~~an~~ the initiation of emission of ultraviolet-C radiation.

3. (currently amended) A device for sterilizing an area using ultraviolet radiation, comprising:
- (a) a base;
 - (b) a plurality of ultraviolet-C radiation emitters, wherein said plurality of ultraviolet-C radiation emitters are located in at least two places within an enclosed area to be treated, with each of two places remote from each other, and wherein said ultraviolet-C radiation emitters are directed towards an enclosed area to be treated; and
 - (c) at least one radiation ~~receiver~~ sensor which receives reflected ultraviolet-C radiation, wherein said ~~receiver~~ radiation sensor measures said reflected ultraviolet-C radiation.
4. (original) A device for sterilizing an area using ultraviolet radiation as described in Claim 3, further comprising a motion detector which communicates with said plurality of ultraviolet-C radiation emitters.
5. (new) A method of sterilizing an area using ultraviolet radiation as described in claim 1, further comprising the steps of detecting motion within said room prior to an initiation of emission of ultraviolet-C radiation, and disabling emission of said ultraviolet-C radiation upon detecting motion.

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6. (new) A method of sterilizing an area using ultraviolet radiation as described in claim 1, wherein reflected ultraviolet radiation is measured from at least two positions within said enclosed area that are remote from each other.
7. (new) A method of sterilizing an area using ultraviolet radiation as described in claim 1, wherein a wall of said enclosed area reflects at least 50% of ultraviolet radiation received by said wall.
8. (new) A device for sterilizing an area using ultraviolet radiation as described in Claim 3, further comprising a motion detector which communicates with said plurality of ultraviolet-C radiation emitters, wherein said motion detector prevents emission of ultraviolet-C radiation upon detecting motion within said enclosed area.
9. (new) A device for sterilizing an area using ultraviolet radiation as described in Claim 3, further comprising at least two radiation sensors that receive reflected ultraviolet-C radiation, wherein each of said at least two radiation sensors is located within the enclosed area to be treated, and at

least one of said at least two radiation sensors is remote from at least one other of said at least two radiation sensors.

10. (new) A device for sterilizing an area using ultraviolet radiation as described in Claim 3, and wherein said at least one of said at least two radiation sensors is positioned to receive radiation reflected from a wall of said enclosed area and is positioned to not receive ultraviolet-C radiation directly from said plurality of ultraviolet-C radiation emitters.
11. (new) A method of sterilizing an area using ultraviolet radiation, comprising the steps of:
 - (a) causing ultraviolet-C radiation to be emitted from multiple positions within an enclosed area;
 - (b) measuring a cumulative reflection of ultraviolet-C radiation from each of the multiple positions within said enclosed area;
 - (c) calculating a required ultraviolet-C radiation reflectance level necessary to sterilize said enclosed area and comparing it with measured reflected ultraviolet-C radiation; and
 - (d) terminating emission of ultraviolet-C radiation after determining that the required ultraviolet-C radiation reflectance level has been reflected from each of the multiple positions within said enclosed area.

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12. (new) A method of sterilizing an area using ultraviolet radiation as described in claim 1, further comprising the step of detecting motion within said enclosed area prior to an initiation of emission of ultraviolet-C radiation.
13. (new) A method of sterilizing an area using ultraviolet radiation as described in claim 11, further comprising the steps of detecting motion within said room prior to an initiation of emission of ultraviolet-C radiation, and disabling emission of said ultraviolet-C radiation upon detecting motion.
14. (new) A method of sterilizing an area using ultraviolet radiation as described in claim 11, wherein reflected ultraviolet radiation is measured from at least two positions within said enclosed area that are remote from each other.
15. (new) A method of sterilizing an area using ultraviolet radiation as described in claim 11, wherein a wall of said enclosed area reflects at least 50% of ultraviolet radiation received by said wall.